



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re Patent Application of)	
A-jung Kim)	Group Art Unit: 2135
Application No.: 09/816,080)	Examiner: BEEMNET W. DADA
Filed: March 26, 2001)	Confirmation No.: 7143
For: KEY AGREEMENT METHOD IN)	
SECURE COMMUNICATION)	
SYSTEM USING MULTIPLE)	
ACCESS METHOD)	

REQUEST FOR RECONSIDERATION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In reply to the final Office Action dated March 1, 2005, applicants respectfully request reconsideration of the above-captioned application. Claims 1-6 are currently pending.

The Office Action includes a rejection of claims 1-6 under 35 U.S.C. §103 as allegedly being unpatentable over the Lo et al patent (U.S. Patent No. 5,732,139) in view of the Mazourenko et al patent (U.S. Patent No. 6,272,224). This rejection continues to be traversed.

The Lo et al patent discloses in columns 5 and 6 a scheme for quantum key distribution referred to as "BB84" after Bennett and Brassard in 1984. Basically, it involves a first user, Alice, which generates and sends a second user, Bob, a sequence of photons whose polarization she has chosen at random and does not inform anyone, including Bob, of the polarizations. Bob measures the polarizations using either rectilinear or diagonal basis with equal probability and records his chosen *basis* and his measurement results. Bob announces over a public channel,